

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,297,697 B2
APPLICATION NO. : 10/509052
DATED : November 20, 2007
INVENTOR(S) : Midha et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

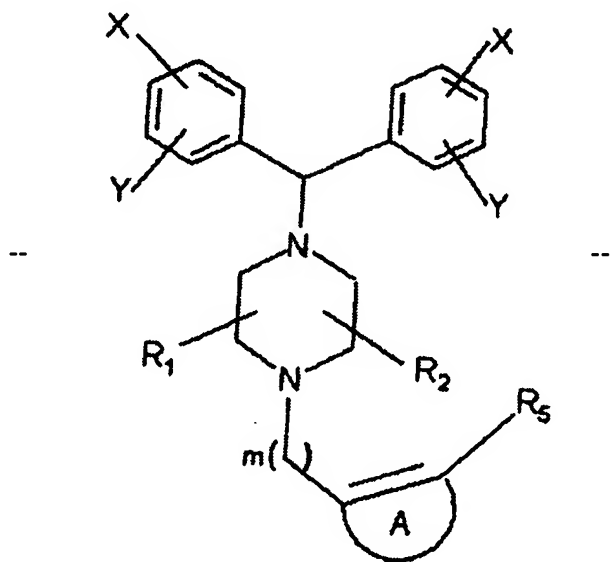
Title page (57) Abstract, line 17: "either E or Z configuration;" should read --either *E* or *Z* configuration;--

Col. 1, line 40: "either E or Z configuration;" should read --either *E* or *Z* configuration;--

Col. 3, line 56: "either E or Z configuration;" should read --either *E* or *Z* configuration;--

Col. 4, line 53: "either E or Z configuration;" should read --either *E* or *Z* configuration;--

Col. 5, lines 15-30: Delete the incorrect compound and insert the correct compound below



Col. 5, line 51: "are in E configuration," should read --are in *E* configuration,--

Col. 6, line 4: "in the E or Z configuration" should read --in the *E* or *Z* configuration--

Col. 7, line 18: "N-alkylated with" should read --*N*-alkylated with--

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 7, line 20: "or p-toluenesulfonate" should read --or *p*-toluenesulfonate--

Col. 8, line 42: "N-alkylated with" should read --*N*-alkylated with--

Col. 8, line 44: : "or p-toluenesulfonate" should read --or *p*-toluenesulfonate--

Col. 9, line 65: "in E or Z configuration," should read --in *E* or *Z* configuration,--

Col. 11, line 54: "R₄ are in E" should read --R₄ are in *E*--

Col. 11, line 55: "by N-alkylating compound" should read --by *N*-alkylating compound--

Col. 14, lines 5-6: "4-{4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-en-1-ol," should read --4-[4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-en-1-ol,--

Col. 14, lines 10-11: "1-[bis-(4-fluorophenyl)methyl]piperazine (140g, 0.485mol), toluene (700ml), 4-chloro-2-butene-1-ol (67.25g, 0.631)," should read --1-[bis(4-fluorophenyl)methyl]piperazine (140 g, 0.485 mol), toluene (700 ml), (Z)-4-chloro-2-butene-1-ol (67.25 g, 0.631),--

Col. 14, lines 22-25: "(d, J=4.90Hz, 2H), 4.13 (d, J=3.96Hz, 2H), 4.20 (s, 1H), 5.55-5.75 (m, 1H), 5.75-6.00 (m, 1H), 6.96 (t, J=8.14Hz, 4H)," should read --(d, J=4.90 Hz, 2H), 4.13 (d, J=3.96 Hz, 2H), 4.20 (s, 1H), 5.55-5.75 (m, 1H), 5.75-6.00 (m, 1H), 6.96 (t, J=8.14 Hz, 4H),--

Col. 14, lines 30-31: "(R,S)-4-{4[(4-chlorophenyl)phenylmethyl]piperazin-1-yl}-(Z)-but-2-en-1-ol, [VIb(R,S)," should read --(R,S)-4-(4[(4-chlorophenyl)phenylmethyl]piperazin-1-yl)-(Z)-but-2-en-1-ol, [VIb(R,S),--

Col. 14, lines 35-37: "(R,S)-1-[(4-chlorophenyl)phenylmethyl]piperazine 8.0g (mol) is converted to (R,S)-4-{4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl}-(Z)-but-2-en-1-ol in a" should read --(R,S)-1-[(4-chlorophenyl)phenylmethyl]piperazine 8.0 g (mol) is converted to (R,S)-4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-en-1-ol in a--

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 14, line 43: "(J=5.75Hz, 2H), 4.13 (d, J=-5.25Hz, 2H)," should read --(J=5.75Hz, 2H), 4.13 (d, J=-5.25Hz, 2H),--

Col. 14, line 49: "4-{4-Benzhydrylpiperazin-1-yl}-(Z)-but-2-en-1-ol," should read --4-[4-Benzhydrylpiperazin-1-yl]-(Z)-but-2-en-1-ol,--

Col. 14, line 53: "toluene (20ml), 4-chloro-2-butene-1-ol" should read --toluene (20 ml), (Z)-4-chloro-2-butene-1-ol--

Col. 14, line 65: "(J=5.52Hz, 2H), 4.13 (dd, J₁=5.19Hz, J₂=0.68Hz, 2H)," should read --(J=5.52Hz, 2H), 4.13 (dd, J₁=5.19Hz, J₂=0.68Hz, 2H),--

Col. 15, lines 3-4: "4-{4-[Bis-(2,4-difluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-en-1-ol," should read --4-[4-[Bis(2,4-difluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-en-1-ol,--

Col. 15, lines 8-9: "is converted to 4-{4-[bis-(2,4-difluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-en-1-ol in a" should read --is converted to 4-[4-[bis(2,4-difluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-en-1-ol in a--

Col. 15, line 15: "(J₁=6.00Hz, J₂=0.74Hz, 2H), 4.14 (dd, J₁=5.31Hz, J₂=0.98" should read --(J₁=6.00Hz, J₂=0.74Hz, 2H), 4.14 (dd, J₁=5.31Hz, J₂=0.98--

Col. 15, lines 20-21: "4-{4-[Bis-(4-chlorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-en-1-ol," should read --4-[4-[Bis(4-chlorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-en-1-ol,--

Col. 15, lines 25-27: "1-[Bis-(4-chlorophenyl)methyl] piperazine (5.044g, mol) is converted to 4-{4-[bis-(4-chlorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-en-1-ol in a" should read --1-[Bis(4-chlorophenyl)methyl]piperazine (5.044 g, mol) is converted to 4-[4-[bis(4-chlorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-en-1-ol in a--

Col. 15, line 32: "(J=5.87Hz, 2H), 4.13 (dd, J₁=5.26Hz, J₂=0.88, 2H)," should read --(J=5.87Hz, 2H), 4.13 (dd, J₁=5.26Hz, J₂=0.88, 2H),--

Col. 15, lines 37-38: "{2-{4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl-methyl}phenyl}methanol" should read --[2-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl-methyl]phenyl]methanol--

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 15, lines 41-43: "1-[Bis-(4-chlorophenyl)methyl]piperazine (5.0g, 0.0173mol) is converted to {2-{4-[bis-(4-fluorophenyl)methyl]piperazin-1-ylmethyl}phenyl}methanol" should read --1-[Bis(4-chlorophenyl)methyl]piperazine (5.0 g, 0.0173 mol) is converted to [2-[4 [bis(4-fluorophenyl)methyl]piperazin-1-ylmethyl]phenyl]methanol--

Col. 15, lines 54-55: "{2-{4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl}phenyl}methanol," should read --[2-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl]phenyl]methanol,--

Col. 15, lines 58-60: "1-[Bis-(4-chlorophenyl)methyl]piperazine (4.0g, 0.0140mol) is converted to {2-{4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl}phenyl}methanol" should read --1-[Bis(4-chlorophenyl)methyl]piperazine (4.0 g, 0.0140 mol) is converted to [2-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl]phenyl]methanol--

Col. 16, lines 3-4: "4-{4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl}but-2-yn-1-ol" should read --4-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl]but-2-yn-1-ol--

Col. 16, line 9: "To a solution containing 1-[bis-(4-fluorophenyl)methyl]" should read --To a solution containing 1-[bis(4-fluorophenyl)methyl]--

Col. 16, lines 25-26: "(t, J=1.84 Hz, 2H), 4.21 (s, 1H), 4.29 (t, J=1.80 Hz, 2H)," should read --(t, J=1.84 Hz, 2H), 4.21 (s, 1H), 4.29 (t, J=1.80 Hz, 2H),--

Col. 16, line 35: "0-5°C. for 1hr the temperature" should read --0-5°C. the temperature--

Col. 16, lines 56-57: "(R,S)-4-{4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl}but-2-yn-1-ol" should read --(R,S)-4-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]but-2-yn-1-ol--

Col. 16, line 60: "containing (R,S)-1-[(4-chlorophenyl)" should read --containing (R,S)-1-[(4-chlorophenyl)--

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 17, line 6: "(t, J=1.72Hz, 2H), 4.20 (s, 1H), 4.29 (t, J=1.63Hz," should read --(t, J=1.72Hz, 2H), 4.20 (s, 1H), 4.29 (t, J=1.63Hz,--

Col. 17, lines 11-12: "(R,S)-4-{4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl}but-2-yn-1-ol" should read --(R,S)-4-[4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl]but-2-yn-1-ol--

Col. 17, line 40: "3.30 (t, J=1.83 Hz, 2H), 4.21 (s, 1H), 4.29 (t, J=1.78 Hz," should read --3.30 (t, J=1.83 Hz, 2H), 4.21 (s, 1H), 4.29 (t, J=1.78 Hz,--

Col. 17, lines 44-45: "4-{4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(E)-but-2-en-1-ol," should read --4-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl]-(E)-but-2-en-1-ol,--

Col. 17, lines 49-50: "methyl 4-{4-[bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(E)-but-2-enoate" should read --methyl 4-[4-[bis(4-fluorophenyl)methyl]piperazin-1-yl]-(E)-but-2-enoate--

Col. 17, line 54: "for further 1.0 hrs at" should read --for further 1.0 hr at--

Col. 18, line 2: "(d, J=5.38 Hz, 2H), 4.12 (d, J=4.40" should read --(d, J=5.38 Hz, 2H), 4.12 (d, J=4.40--

Col. 18, lines 9-10: "4-{4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(E)-but-2-en-1-ol" should read --4-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl]-(E)-but-2-en-1-ol--

Col. 18, lines 14-15: "4-{4-[bis-(4-fluorophenyl)methyl]piperazin-1-yl}but-2-yn-1-ol" should read --4-[4-[bis(4-fluorophenyl)methyl]piperazin-1-yl]but-2-yn-1-ol--

Col. 18, line 26: "(d, J=4.91 Hz, 2H), 4.11 (d, J=3.71" should read --(d, J=4.91 Hz, 2H), 4.11 (d, J=3.71--

Col. 18, lines 32-33: "(R,S)-4-{14[(4-chlorophenyl)phenylmethyl]piperazin-1-yl}-(E)-but-2-en-1-ol," should read --(R,S)-4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-en-1-ol,--

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 18, lines 37-38: "(R,S)-4-{4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl}but-2-yn-1-ol (3.5g, mol) is converted to (R,S)-4-{4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl}-(E)-but-2-en-1-ol in a" should read --(R,S)-4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]but-2-yn-1-ol (3.5 g, mol) is converted to (R,S)-4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-en-1-ol in a--

Col. 18, line 45 "(J=4.83 Hz, 2H), 4.11 (d, J=3.52 Hz, 2H)," should read --(J=4.83 Hz, 2H), 4.11 (d, J=3.52 Hz, 2H),--

Col. 18, lines 50-51: "(R,S)-4-{4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl}-(E)-but-2-en-1-ol" should read --- (R,S)-4-[4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-en-1-ol--

Col. 18, lines 55-58: "(R,S)-4-{4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl}but-2-yn-1-ol (2.13g, 0.0063 mol) is converted to (R,S)-4-{4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl}-(E)-but-2-en-1-ol in a" should read --(R,S)-4-[4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl]but-2-yn-1-ol (2.13 g, 0.0063 mol) is converted to --(R,S)-4-[4-[(4-fluorophenyl)phenyl-methyl]piperazin-1-yl]-(E)-but-2-en-1-ol in a--

Col. 18, lines 65-66: "d, J=5.23 Hz, 2H), 4.11 (d, J=4.20 Hz, 2H)," should read --(d, J=5.23 Hz, 2H), 4.11 (d, J=4.20 Hz, 2H),--

Col. 19, lines 3-4: "Methyl 4-{4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(E)-but-2-enoate," should read --Methyl 4-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl]-(E)-but-2-enoate,--

Col. 19, line 7: "solution of methyl-4-bromocrotonate" should read --solution of methyl 4-bromocrotonate--

Col. 19, line 9: "containing 1-[bis-(4-fluorophenyl)methyl]piperazine" should read --containing 1-[bis(4-fluorophenyl)methyl]piperazine--

Col. 19, line 25: "(d, J=5.00 Hz, 2H)," should read --d, J=5.00 Hz, 2H),--

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Col. 19, lines 32-33: "Methyl 4-{4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl}-(E)-but-2-enoate," should read --Methyl --4-[4-(4-chlorophenyl)phenylmethyl]piperazin-1-yl)-(E)-but-2-enoate,--

Col. 19, line 35: "containing (R,S)-1-[(4-chlorophenyl)" should read --containing (R,S)-1-[(4-chlorophenyl)--

Col. 19, lines 36-37: "methyl-4-bromocrotonate" should read --methyl 4-bromocrotonate--

Col. 19, line 46: "(J₁=6.20 Hz, J₂=1.39 Hz, 2H)," should read --(J₁=6.20 Hz, J₂=1.39 Hz, 2H),--

Col. 19, lines 52-53: "{4-{4-[Bis-(4-fluorophenyl)methyl]-piperazin-1-yl}-(Z)-but-2-enyloxy}acetic acid" should read --[4-[4-Bis(4-fluorophenyl)methyl]-piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 19, lines 55-56: "solution of 4-{4-[bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-en-1-ol" should read --4-[4-[bis(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-en-1-ol--

Col. 19, line 57: "tert-butoxide" should read --tert-butoxide--

Col. 19, line 58: "tert-butanol" should read --tert-butanol--

Col. 19, line 62: "tert-butanol" should read --tert-butanol--

Col. 20, lines 4-5: "(d, J=7.51 Hz, 2), 3.96 (s, 2H), 4.19 (d, J=4.51 Hz, 2)," should read --(d, J=7.51 Hz, 2H), 3.96 (s, 2H), 4.19 (d, J=4.51 Hz, 2H),--

Col. 20, lines 7-8: "suspension of {4-[4-[bis-(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy}acetic acid" should read --suspension of [4-[4-[bis(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 20, lines 17-18: "(R,S)-4-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy}acetic acid dihydrochloride, [Ib, (R,S)]" should read --(R,S)-4-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid dihydrochloride, [Ib (R,S)]--

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Col. 21, lines 13-14: “{4-[4-[Bis-(4-chlorophenyl)methyl]-piperazin-1-yl]-(Z)-but-2-enyloxy}acetic acid” should read --[4-[4-[Bis(4-chlorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy}acetic acid--

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Col. 21, lines 16-19: "4-{4-[Bis-(4-chlorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-en-1-ol (2.26 g, mol) is converted to {4-[4-[bis-(4-chlorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-enyloxy}acetic acid" should read --4-[4-[Bis(4-chlorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-en-1-ol (2.26 g, mol) is converted to [4-[4-[bis(4-chlorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 21, lines 25-26: "(d, J=7.38 Hz, 2H), 3.94 (s, 2H), 4.20 (d, J=4.08 Hz, 2H)," should read --(d, J=7.35 Hz, 2H), 3.94 (s, 2H), 4.20 (d, J=4.08 Hz, 2H),--

Col. 21, lines 34-35: "{c4-{4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-enyloxy}acetic acid" should read --[4-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 21, lines 39-40: "solution of {4-{4-[bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-enyloxy}acetic acid" should read --solution of [4-[4-[bis(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 21, line 47: "(d, J=7.66 Hz, 2H)," should read --(d, J=7.66 Hz, 2H),--

Col. 21, lines 54-55: "{4-{4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-enyloxy}acetic acid" should read --[4-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 21, lines 58-59: "solution of {4-{4-[bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-enyloxy}acetic acid" should read --solution of [4-[4-[bis(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 21, lines 65-66: "(t, J=7.10 Hz, 3H), 2.70-4.30 (m, 17H), 5.70-6.20 (m, 2H), 7.10 (t, J=8.62" should read --(t, J=7.10 Hz, 3H), 2.70-4.30 (m, 17H), 5.70-6.20 (m, 2H), 7.10 (t, J=8.62--

Col. 22, lines 3-4: "{4-{4-[Bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-enyloxy}acetic acid" should read --[4-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 22, lines 7-8: "solution of {4-{4-[bis-(4-fluorophenyl)methyl]piperazin-1-yl}-(Z)-but-2-enyloxy}acetic acid" should read --[4-[4-[bis(4-fluorophenyl)methyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

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Col. 22, line 15: "(d, J=6.25 Hz," should read --(d, J=6.25 Hz,--

Col. 22, line 17: "(t, J=8.56" should read --(t, J=8.56--

Col. 22, lines 22-24: "(R,S)-{4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy}acetic Acid Isopropyl Ester Dihydrochloride, (Ii):" should read --(R,S)-[4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid isopropyl ester dihydrochloride, (Ii)--

Col. 22, lines 26-28: "using (R,S)-{4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy}acetic acid" should read --using (R,S)-[4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 22, lines 29-30: "(d, J=6.26 Hz, 6H), 2.80-3.70 (m, 8H), 3.80-4.15 (m, 3H), 4.21 (d, J=5.57" should read --(d, J=6.26 Hz, 6H), 2.80-3.70 (m, 8H), 3.80-4.15 (m, 3H), 4.21 (d, J=5.57--

Col. 22, lines 36-37: "(R,S)-{4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy}acetic acid" should read --(R,S)-[4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

Col. 22, lines 40-41: "solution of (R,S)-{4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy}acetic" should read --solution of (R,S)-[4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic--

Col. 22, line 55-57: "(R,S)-{4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy}acetic Acid Ethyl Ester Dihydrochloride," should read --(R,S)-[4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid ethyl ester dihydrochloride,--

Col. 22, lines 60-62: "using (R,S)-{4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy}acetic acid" should read --using (R,S)-[4-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]-(Z)-but-2-enyloxy]acetic acid--

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,297,697 B2
APPLICATION NO. : 10/509052
DATED : November 20, 2007
INVENTOR(S) : Midha et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 22, line 64: “(t, J=7.12 Hz,” should read --(t, J=7.12 Hz,--

Col. 23, lines 3-4: “{2-{4-[bis(4-fluorophenyl)methyl]piperazin-1-ylmethyl}benzyloxy}acetic acid” should read --[2-[4-[bis(4-fluorophenyl)methyl]piperazin-1-ylmethyl]benzyloxy]acetic acid--

Col. 23, lines 7-10: “{2-{4-[Bis(4-fluorophenyl)methyl]piperazin-1-ylmethyl}phenyl}methanol (5.0 g, 0.0122 mol) is converted to {2-{4-[Bis(4-fluorophenyl)methyl]piperazin-1-ylmethyl}benzyloxy}acetic acid” should read --[2-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-ylmethyl]phenyl]methanol (5.0 g, 0.0122 mol) is converted to [2-[4-[bis(4-fluorophenyl)methyl]piperazin-1-ylmethyl]benzyloxy]acetic acid--

Col. 23, lines 26-27: “(R,S) {2-{4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl}benzyloxy}acetic acid” should read --(R,S) [2-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl]benzyloxy]acetic acid--

Col. 23, lines 30-33: “{2-{4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl}phenyl}methanol (4.0 g, 9.83 mmol) is converted to {2-{4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl}benzyloxy}acetic acid” should read --[2-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl]phenyl]methanol (4.0 g, 9.83 mmol) is converted to [2-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-ylmethyl]benzyloxy]acetic acid--

Col. 23, lines 46-47: “{4-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl]-(E)-but-2-enyloxy}acetic acid” should read --[4-[4-[Bis(4-fluorophenyl)methyl]piperazin-1-yl]-(E)-but-2-enyloxy]acetic acid--

Col. 23, lines 51-54: “solution of 4-{4-[bis(4-fluorophenyl)methyl]piperazin-1-yl]-(E)-but-2-en-1-ol (247.0 g, 0.689 mol) and potassium *tert*-butoxide (139.2g, 1.240mol) in anhydrous *tert*-butanol” should read --solution of 4-[4-[bis(4-fluorophenyl)methyl]piperazin-1-yl]-(E)-but-2-en-1-ol (247.0 g, 0.689 mol) and potassium *tert*-butoxide (139.2 g, 1.240 mol) in anhydrous *tert*-butanol--

Col. 23, line 58: “until *tert*-butanol is” should read --until *tert*-butanol is--

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 24, line 2: "J=6.79 Hz, 2H)" should read --J=6.79 Hz, 2H)--

Col. 24, lines 8-9: "(R,S)-{4-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-enyloxy}acetic acid" should read --(R,S)-[4-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-enyloxy]acetic acid--

Col. 24, lines 12-15: "(R,S)-4-{4-[4-(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-en-1-ol (1.9 g, 0.0053 mol) is converted to (R,S)-{4-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-enyloxy}acetic acid" should read --(R,S)-4-[4-[4-(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-en-1-ol (1.9 g, 0.0053 mol) is converted to (R,S)-[4-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-enyloxy]acetic acid--

Col. 24, lines 27-28: "(R,S)-{4-[4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-enyloxy}acetic acid" should read --(R,S)-[4-[4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-enyloxy]acetic acid--

Col. 24, lines 31-34: "(R,S)-4-{4-[4-(4-Fluorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-en-1-ol (0.7 g, 2.06 mmol) is converted to (R,S)-{4-[4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-enyloxy}acetic acid" should read --(R,S)-4-[4-[4-(4-Fluorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-en-1-ol (0.7 g, 2.06 mmol) is converted to (R,S)-[4-[4-[(4-fluorophenyl)phenylmethyl]piperazin-1-yl]-(E)-but-2-enyloxy]acetic acid--

Col. 25, line 55, claim 1: "or cyclo)," should read --or cyclic),--

Col. 25, line 58, claim 1: "or cyclo)," should read --or cyclic),--

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Col. 26, line 2, claim 1: "either E or Z configuration;" should read --either *E* or *Z* configuration;--

Col. 26, line 41, claim 1: "or cyclo)," should read --or cyclic),--

Signed and Sealed this

Nineteenth Day of August, 2008

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large, looped initial "J" and a distinct "D" at the end.

JON W. DUDAS
Director of the United States Patent and Trademark Office